ELSEVIER

Volume 513, Numbers 1–2, 3 May 1996

Journal of Organometallic Chemistry

Contents

Regular Papers

Solvothermal synthesis, molecular structures and spectroscopic characterization of the cluster compounds $(Ph_4P)_2[Fe_4Te_2(CO)_{14}]$ and $Cs[HFe_3Te(CO)_9]$
B.K. Das and M.G. Kanatzidis (East Lansing, MI, USA) 1

Pentamethylcyclopentadienyliridium(III) complexes containing tertiary phosphorus chalcogenide ligands: crystal structure of $[(\eta^5C_5Me_5)Ir\{PO(OMe)_2\}\{\eta^2(SPPh_2)_2CH_2\text{-}S,S'\}]BF_4 \cdot 0.5Me_2CO$
M. Valderrama and R. Contreras (Santiago, Chile) 7

Reaction of $(POR)M(OAc)_2$ (M = Zr, Hf) with ^{n}BuLi and solid state structure of $[(TPP)Zr(\mu\text{-}OH)_2]_2$
J.L. Huhmann, J.Y. Corey, N.P. Rath (St. Louis, MO, USA) and C.F. Campana (Madison, WI, USA) 17

Synthesis of a novel planar hexaosmium carbonyl cluster: crystal structure of $[HOs_6(CO)_{20}(\mu\text{-}\eta^2\text{-}NC_5H_4CH{=}CH)]$
W.-Y. Wong and W.-T. Wong (Hong Kong) 27

Phosphenium-Übergangsmetallkomplexe. XXVIII. PH-funktionalisierte Phosphametallacyclen $C_5R_5(OC)_2W\text{-}PH(t\text{-}Bu)\text{-}X$ (R = H, Me; X = S, Se, Te) mit Dreiringstruktur
W. Malisch, K. Grün, U.-A. Hirth (Würzburg, Deutschland) und M. Noltemeyer (Göttingen, Deutschland) 31

XLVII. Darstellung und Charakterisierung einiger anionischer Allylneodym(III)-Komplexe als Katalysatoren für die stereospezifische Butadienpolymerisation: $Li[Nd(\eta^3\text{-}C_3H_5)_4] \cdot 1{,}5$Dioxan, $Li[Nd(\pi\text{-}C_5H_5)(\eta^3\text{-}C_3H_5)_3] \cdot 2$Dioxan und $Li[Nd(\eta^5\text{-}C_5Me_5)(\eta^3\text{-}C_3H_5)_3] \cdot 3$Dimethylglykolether
R. Taube, S. Maiwald (Merseberg, Deutschland) und J. Sieler (Leipzig, Deutschland) 37

XLVIII. Synthese und Struktur der ersten neutralen Tris(allyl)lanthanoid-Komplexe $La(\eta^3\text{-}C_3H_5)_3 \cdot 1{,}5$ Dioxan und $Nd(\eta^3\text{-}C_3H_5)_3 \cdot$ Dioxan und ihre Eignung als "single site"-Katalysatoren für die stereospezifische Butadienpolymerisation
R. Taube, H. Windisch, S. Maiwald (Merseburg, Deutschland), H. Hemling und H. Schumann (Berlin, Deutschland) 49

Tautomerism in coordinated 1-phenyl-5-thione-1,2,3,4-tetrazole (HL). Synthesis and crystal structure of $[SnMe_2(phen)L_2]$ (phen = 1,10-phenanthroline)
J. Bravo, M.B. Cordero (Vigo, Spain), J.S. Casas, M.V. Castaño, A. Sánchez and J. Sordo (Santiago de Compostela, Spain) 63

A practical synthesis of ethynylferrocene from ferrocene carboxaldehyde: structure of 1,4-diferrocenyl-1,3-butadiyne
J.-G. Rodriguez, A. Oñate, R.M. Martin-Villamil and I. Fonseca (Madrid, Spain) 71

Synthesis, characterisation and X-ray crystal structures of diorganotin(IV) complexes with 2-mercaptopyridine derivatives
M.D. Couce, G. Faraglia, U. Russo, L. Sindellari and G. Valle (Padova, Italy) 77

High nuclearity ruthenium carbonyl cluster chemistry. IV. Reactivity of $[Ru_{10}(\mu\text{-}H)(\mu_6\text{-}C)(CO)_{24}]^-$ towards trimethylphosphite or bis(diphenylphosphino)acetylene; X-ray crystal structure of $[PPh_4][Ru_{10}(\mu\text{-}H)(\mu_6\text{-}C)(CO)_{22}\{P(OMe)_3\}_2]$
M.P. Cifuentes (Armidale, Australia), M.G. Humphrey and A.C. Willis (Canberra, Australia) 85

Reaction products of CO with square-planar platinum(II)-(*N*,*N*-chelate) complexes: synthesis and reactivity
V. De Felice (Campobasso, Italy), A. De Renzi, M.L. Ferrara and A. Panunzi (Napoli, Italy) 97

Outer-sphere coordination of *o*-phenanthroline in bis[aquachlorotri(*p*-chlorophenyl)tin·*o*-phenanthroline]
S.W. Ng and V.G. Kumar Das (Kuala Lumpur, Malaysia) 105

Synthesis and reactions of [((η^6)-2-acylaryl)-C,O)tetracarbonylmanganese]- tricarbonylchromium complexes: enhancement of diastereoselection during cyclopentaannulation
G.R. Clark, M.R. Metzler, G. Whitaker and P.D. Woodgate (Auckland, New Zealand) 107

Cp^*AlR_2 compounds (R = Me, Et, ^{t}Bu): synthesis and structure of novel aluminium organyls with a pentamethylcyclopentadienyl substituent as well as structure of analogous $Cp'AlR_2$ compounds (Cp′ = Cp, MeCp; R = Me, Et)
M. Scherer and T. Kruck (Köln, Germany) 135

Organotin(IV) polypyrazolylborates. IX. Tetrakis(4-methyl-1*H*-pyrazol-1-yl)borates. Characterisation, Mössbauer study and X-ray crystal structure of $Cl_3Sn(\mu\text{-}4\text{-}MePz)_3B(4\text{-}MePz)$
G. Gioia Lobbia (Camerino, Italy), P. Cecchi (Viterbo, Italy), C. Santini (Camerino, Italy), S. Calogero (Venezia, Italy), G. Valle (Padova, Italy) and F.E. Wagner (Garching, Germany) 137

Preparation of the alkynyl–hydride complexes $MH(C{\equiv}CR)\{PPh(OEt)_2\}_4$ of iron and ruthenium
G. Albertin, S. Antoniutti and E. Bordignon (Venice, Italy) 147

Coordination chemistry of mono- and di-nitriles in $[Ru_3(CO)_{12-n}(RCN)_n]$ (n = 1–3): influence of the CO/nitrile ratio on fluxionality
P. Grenouillet and C. De Bellefon (Décines, France) 155

The decomposition reaction of the dialane radical anion $[R_2Al\text{-}AlR_2]^-$ in DME(II): crystal structures of the aluminium glycolates $[R_2Al(OCH_2)_2]K(DME)$ and $R_2Al(OCH_2)_2Al(R)(OCH_2)_2AlR_2$ ($R = CH(SiMe_3)_2$)
W. Uhl, R. Gerding and A. Vester (Oldenburg, Germany) 163

$(THFMgNPh)_6$ as an imide transfer agent: synthesis of titanium and zirconium imido complexes
W.J. Grigsby, M.M. Olmstead and P.P. Power (Davis, CA, USA) 173

Elsevier Science S.A.

Reactions of dinuclear and polynuclear complexes. XVI. Chemistry of hydrido-, thiolato-bridged complexes $[Mo_2Cp_2(\mu\text{-}H)(\mu\text{-}SR)(CO)_4]$ (R = Me, Ph): Reactivity and electrochemical behaviour; crystal structure of $[Mo_2Cp_2(\mu\text{-}SPh)\{\mu\text{-}\sigma:\eta^2\text{-}C(CH_3)=CHCH_3\}(CO)_2]$
P. Schollhammer, F.Y. Pétillon, S. Poder-Guillou, J. Talarmin (Brest, France), K.W. Muir and D.S. Yufit (Glasgow, UK) 181
Steric effects in organometallic compounds. A ^{103}Rh NMR study of alkylrhodoximes
F. Asaro (Zürich, Switzerland), G. Costa, R. Dreos, G. Pellizer (Trieste, Italy) and W. Von Philipsborn (Zürich, Switzerland) 193
Ruthenium clusters with nitrogen ligands. V. Pyridyl ligands on triruthenium cores. X-ray structures of $Ru_3(\mu\text{-}H)_2(\mu\text{-}NC_5H_4)_2(CO)_8$ and $Ru_3(\mu_3\text{-}\eta^2\text{-}PPhCH_2PPh_2)(\mu\text{-}NC_5H_4)(CO)_8$
M.P. Cifuentes (Armidale, Australia), M.G. Humphrey (Canberra, Australia), B.W. Skelton and A.H. White (Nedlands, Australia) 201
NMR-spektroskopische und strukturelle Charakterisierung der Tri-*iso*-propylsilylphosphanide des Calciums
M. Westerhausen, R. Löw und W. Schwarz (Stuttgart, Deutschland) 213
Preparation and properties of diruthenium complexes with bridging disulfide and thiolate ligands $[Cp^*Ru(\mu\text{-}S_2)(\mu\text{-}SR)_2RuCp^*]$ ($Cp^* = \eta^5\text{-}C_5Me_5$, R = Pr^i and $PhCH_2$)
Y. Mizobe, M. Hosomizu, S. Kuwata, J.-I. Kawabata and M. Hidai (Tokyo, Japan) 231
Polymeric chains from $[\{Ph_2SiOLi\cdot THF)_2O\}_2]$ and linear dicoordinating nitrogen bases. Crystal X-ray structures of $[\{Ph_2SiOLi)_2O\cdot THF\}_2\cdot 2DABCO]$, DABCO = 1,4-diazabicyclo[2.2.2]octane, and $[\{Ph_2SiOLi)_2O\cdot THF\}_2\cdot 2\{4,4'\}$-bipyridine]
M. Motevalli, D. Shah and A.C. Sullivan (London, UK) 239
Synthesis and reactions of [Mo(2,6-lutidine)(η-allyl)] derivatives
C.P. Mehnert, A.N. Chernega and M.L.H. Green (Oxford, UK) 247
Reactions of $Ru_5(\mu_5\text{-}C_2PPh_2)(\mu\text{-}PPh_2)(CO)_{13}$ with functional phosphines. X-ray structures of $Ru_5(\mu_5\text{-}C_2PPh_2)(\mu\text{-}PPh_2)(dppm)(CO)_{12}\cdot CHCl_3$ $Ru_5(\mu_5\text{-}C_2H)(\mu\text{-}PPh_2)_2(\mu\text{-}P,N\text{-}PPh_2C_6H_4NH\text{-}2)(\mu\text{-}CO)(CO)_{10}$, $Ru_4\{\mu_4\text{-}C_2PPh_2[Ru(\mu\text{-}OH)(C,P\text{-}2\text{-}CHMeC_6H_4PPh_2\text{-}2)(CO)_2]\}(\mu\text{-}PPh_2)(CO)_{10}\cdot CHCl_3$ and $Ru_5(\mu\text{-}H)_2\{\mu_5\text{-}PPh_2C_2CHC(C_6H_4PPh_2\text{-}2)\}(\mu\text{-}PPh_2)(CO)_{11}$
C.J. Adams, M.I. Bruce (Adelaide, Australia), B.W. Skelton and A.H. White (Nedlands, Australia) 255

Preliminary Communications

Synthesis and molecular structure of the paramagnetic Co(II) bis(boryl) complex $[Co(PMe_3)_3(Bcat)_2]$ (cat = $1,2\text{-}O_2C_6H_4$)
C. Dai, G. Stringer, J.F. Corrigan, N.J. Taylor, T.B. Marder (Waterloo, Canada) and N.C. Norman (Newcastle-upon-Tyne, UK) 273
Structure and reactivity of (Dibenzo[b,e]fulvalene)$Mo_2(CO)_6$
R.C. Kerber and B.R. Waldbaum (Long Island, NY, USA) 277
Novel monoanionic di-*N*,*N'*-centred chelating ligands and their C_1 and C_2 symmetrical zirconium complexes
B.-J. Deelman, P.B. Hitchcock, M.F. Lappert (Brighton, UK), H.-K. Lee and W.-P. Leung (Shatin, Hong Kong) 281

Corrigendum 287

Erratum 289

Author Index 291

Subject Index 293

Conference Calendar 301

The publisher encourages the submission of articles in electronic form thus saving time and avoiding rekeying errors. A leaflet describing our requirements is available from the publisher upon request.